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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/717,071	11/19/2003	Reza Shahidi	4740-250	7244
24112	7590 12/12/2006		EXAMINER	
COATS & BENNETT, PLLC P O BOX 5			GESESSE, TILAHUN	
RALEIGH, NC 27602			ART UNIT	PAPER NUMBER
,			2618	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
Office Action Commons	10/717,071	SHAHIDI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Tilahun B. Gesessse	2618				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timused the apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. tely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status	•					
1)⊠ Responsive to communication(s) filed on 19 No.	ovember 2006					
						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
closed in accordance with the practice under L	x parte Quayle, 1900 C.D. 11, 40	3 0.0. 213.				
Disposition of Claims		* '				
4) Claim(s) 1-45 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-45</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement	٠.				
o) Claim(o) and Subject to restriction and si	olocion roqui omeni.					
Application Papers						
9) The specification is objected to by the Examine	r					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the Ex						
Priority under 35 U.S.C. § 119						
•	priority under 35 H S C & 119(a)	-(d) or (f)				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 						
		d in this National Stage				
application from the International Bureau	• • • • • • • • • • • • • • • • • • • •					
* See the attached detailed Office action for a list of the certified copies not received.						
A44k						
Attachment(s)	∆ □ 1-1 2	(DTO 442)				
1) Motice of References Cited (PTO-892) 2) Motice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary (PTO-413) Paper No(s)/Mail Date					
3) Notice of Draisperson's Patent Drawing Review (F10-946) 5) Notice of Informal Patent Application						
Paper No(s)/Mail Date <u>3/31/05 & 9/19/05</u> . 6) Other:						

Art Unit: 2618

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-45 are rejected under 35 U.S.C. 103(a) as being unpatentable Dillon et al (US 2002/0137520) in view of Lewis et al (US 6,847,821).

As to claims 1,19, Dillon teaches a method of prioritizing voice over data service in a wireless communication network, (see abstract and page 2, paragraph 0016, lines 13, determining whether the cell is in overload condition whether the voice users who are at the maximum gain level. The method includes reducing the gains of non-priority users (data users) or whether the voice call in danger is either save or lost. fig.3) comprising:

Dillon teaches the combined usage exceeds a resource release threshold,(see page 3, paragraph 0025-0028).

Dillon teaches reducing the combined usage by a desired amount by modifying ongoing service to one of the current data users (see page 3, paragraph 30) in which the non-priority traffic channel gain area reduce (the non-priority traffic is data traffic).

Dillon does not teach monitoring a combined usage of a shared network resource by voice and data users.

Art Unit: 2618

However, Lewis teaches monitoring a combined usage of a shared network resource by current voice and data users (see abstract) in which, Lewis teaches a method in a wireless communication network, for the simultaneous transmission of voice and non-voice data over a signal dedicated radio frequency channel. Dillon and Lewis teaches monitoring traffic and managing the service, then, it would have been obvious to an artisan of ordinary skill in the art at the time of the invention was made to monitor the combined usage of shared network resources in Dillon system, as evidenced by Lewis , in order to allow voice and non-voice data transmit in a single channel , thus freeing other channels for other tasks or resource capacity of the system (see col. 1, lines 65-col2, line 2).

Claim 2, Dillon does not teach monitoring a combined usage of a shared network resource by voice and data users.

However, Lewis teaches monitoring a combined usage of a shared network resource by current voice and data users (see abstract). Dillon and Lewis teaches monitoring traffic and managing the service, then, it would have been obvious to an artisan of ordinary skill in the art at the time of the invention was made to monitor the combined usage of shared network resources in Dillon system, as evidenced by Lewis, in order to allow voice and non-voice data transmit in a single channel, thus freeing other channels for other tasks or freeing resource capacity for the system (see col. 1, lines 65-col2, line 2).

Claims 3-4, Lewis teaches reducing the combined usage a desired amount by modifying ongoing service to one of the current data users comprises reducing a

Art Unit: 2618

transmit power allocation for one or more of the current data users (see page 3, paragraph 0032-page 4, paragraph 0035 and figure 4).

Claims 5,22 Lewis teaches reducing a transmit power allocation for one or more of the current data users comprises reducing a data rate of a forward link channel associated with each of the one or more current data users (see page 3, paragraph 0032-page 4, paragraph 0035 and figure 4).

Claims 7,20-21 Lewis teaches reducing a transmit power allocation for one of the current data users comprises changing a radio service configuration of each of the one current data users (see page 3, paragraph 0025-0030 and figure 3).

Claim 6, Dillon teaches reducing a transmit power allocation for one of the current data users comprises reducing an encoding rate of a forward link channel associated with each of the one current data users (page 2, paragraph 0016, identifying associated of priority level and non-priority level, where the voice is maximum level and reduce the gain of non-priority level until the cell recover form the an overload situation or until the voice call in danger is either saved or lost) in which the gain of non-priority (data or HSD) reduced then, an encoding rate of a forward link channel associated with data users is reduced.

Claims 8,17,18,25-30 Dillon teaches selecting the one current data users for reduction of allocated transmit power based on ranking the current data users according to a forward link power-to-data-rate metric and choosing a number of current data users in rank order to achieve the desired amount of reduction (see page 3, paragraph 0025-

Art Unit: 2618

0030 and figure 3) in which calculate Ec/lo associate with priority gain of each channel upon all voice users at maximum gain reduce non-priority gain (data).

Claims 9,15, Lewis teaches choosing a particular one of the current data users for modification of ongoing service according to an overall service objective comprising a throughput objective that penalizes one to maintain data service throughput (see page 3, paragraph 0025-0030 and figure 3).

Claims 13,16 Lewis teaches reducing the combined usage by a desired amount by modifying ongoing service to one of the current data users comprises reducing an aggregate usage of the shared network resource by the data users subject to one minimum usage constraints such that resources are not released from the current data users in violation of any minimum usage constraint (see page 3, paragraph 0025-0030 and figure 3).

As to claims 14,Dillon teaches a method of dynamically prioritizing voice over data service in a wireless communication network, (see abstract and page 2, paragraph 0016, lines 13, determining whether the cell is in overload condition whether the voice users who are at the maximum gain level. The method includes reducing the gains of non-priority users (data users) or whether the voice call in danger is either save or lost. fig.3) comprising:

Dillon teaches the combined usage exceeds a resource release threshold, (see page 3, paragraph 0025-0028).

Art Unit: 2618

Dillon teaches reducing the combined usage by a desired amount by modifying ongoing service to one of the current data users (see page 3, paragraph 30) in which the non-priority traffic channel gain area reduce (the non-priority traffic is data traffic).

Dillon does not teach monitoring a combined usage of a shared network resource by voice and data users.

However, Lewis teaches monitoring a combined usage of a shared network resource by current voice and data users (see abstract) in which, Lewis teaches a method in a wireless communication network, for the simultaneous transmission of voice and non-voice data over a signal dedicated radio frequency channel. Dillon and Lewis teaches monitoring traffic and managing the service, then, it would have been obvious to an artisan of ordinary skill in the art at the time of the invention was made to monitor the combined usage of shared network resources in Dillon system, as evidenced by Lewis, in order to allow voice and non-voice data transmit in a single channel, thus freeing other channels for other tasks or resource capacity of the system (see col. 1, lines 65-col2, line 2).

Claims 10-11, Dillon teaches monitoring usage of forward link spreading codes at a network radio base station (see page 3, paragraph 0031-page 4, paragraph 0035 and figure 4).

Claim 12, 23-24, Dillon teaches reducing forward link spreading code usage for one of the current data users comprises changing a spreading code assignment for each of the one current data users from a spreading code in a base set of spreading codes to a spreading code in an extended set of spreading codes (see page 3,

Art Unit: 2618

paragraph 0031-page 4, paragraph 0035 and figure 4).

Claims 31-34,37,42-45 Dillon teaches a radio base station comprising: a wireless communication network, (see abstract and page 2, paragraph 0016, lines 13, determining whether the cell is in overload condition whether the voice users who are at the maximum gain level. The method includes reducing the gains of non-priority users (data users) or whether the voice call in danger is either save or lost. fig.3) comprising:

Dillon teaches the combined usage exceeds a resource release threshold, (see page 3, paragraph 0025-0028).

Dillon teaches reducing the combined usage by a desired amount by modifying ongoing service to one of the current data users (see page 3, paragraph 30) in which the non-priority traffic channel gain area reduce (the non-priority traffic is data traffic).

Dillon does not teach monitoring a combined usage of a shared network resource by voice and data users.

However, Lewis teaches monitoring a combined usage of a shared network resource by current voice and data users (see abstract) in which, Lewis teaches a method in a wireless communication network, for the simultaneous transmission of voice and non-voice data over a signal dedicated radio frequency channel. Dillon and Lewis teaches monitoring traffic and managing the service, then, it would have been obvious to an artisan of ordinary skill in the art at the time of the invention was made to monitor the combined usage of shared network resources in Dillon system, as evidenced by Lewis, in order to allow voice and non-voice data transmit in a single

Art Unit: 2618

channel, thus freeing other channels for other tasks or resource capacity of the system (see col. 1, lines 65-col2, line 2).

Claim 35, Dillon teaches as explained in claim 34, Dillon, further teaches cdma2000 radio base station (see page 2, paragraph 0019).

Claims 36,40-41, Dillon teaches base station IS2000, it is inherent to utilize supplementary channel (see page 3, paragraph 0031-page 4, paragraph 0035 and figure 4, page 2,paragraph 0019).

Claims 38-39, Dillon teaches reducing a transmit power allocation for one of the current data users comprises reducing an encoding rate of a forward link channel associated with each of the one current data users (page 2, paragraph 0016, identifying associated of priority level and non-priority level, where the voice is maximum level and reduce the gain of non-priority level until the cell recover form the an overload situation or until the voice call in danger is either saved or lost) in which the gain of non-priority (data or HSD) reduced then, an encoding rate of a forward link channel associated with data users is reduced.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Oses (US 2004/0142715) teaches manage the power to voice and data channels and other control channel at difference level (see abstract and figs 1 and 4).

Art Unit: 2618

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tilahun B Gesesse whose telephone number is 571-272-7879. The examiner can normally be reached on flexible schedule.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Urban can be reached on 571-272-7899.

The Central FAX Number is 571-273-8300. For patent related correspondence, hand carry deliveries must be made to the Customer Service Window (now located at the Randolph Building, 401 Dulany Street, Alexandria, VA 22314), and facsimile transmissions must be sent to the Central FAX number, unless an exception applies.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TG

11/15/06

TILAHUN GESESSE